

FIG. 4

$$X = \left[\underline{x}, \overline{x}\right] = \left\{x \in \Re^* | \underline{x} \le x \le \overline{x}\right\}$$

$$\mathbf{Y} = \left[\underline{\mathbf{y}}, \overline{\mathbf{y}} \right] = \left\{ \mathbf{y} \in \Re^* | \underline{\mathbf{y}} \le \mathbf{y} \le \overline{\mathbf{y}} \right\}$$

(1)
$$X + Y = \left[\sqrt{\underline{x} + \underline{y}}, \uparrow \overline{x} + \overline{y} \right]$$

(2)
$$X-Y = \left[\sqrt{\underline{x}} - \overline{y}, \uparrow \overline{x} - \underline{y} \right]$$

(3)
$$X \times Y = \left[\min \left(\sqrt{\underline{x}} \times \underline{y}, \underline{x} \times \underline{y}, \overline{x} \times \underline{y}, \overline{x} \times \underline{y} \right), \max \left(\sqrt{\underline{x}} \times \underline{y}, \underline{x} \times \underline{y}, \overline{x} \times \underline{y}, \overline{x} \times \underline{y} \right) \right]$$

(4) X/Y =
$$\left[\min\left(\sqrt{\underline{x}}/\underline{y}, \underline{x}/\underline{y}, \overline{x}/\underline{y}, \overline{x}/\underline{y}\right), \max\left(\lceil \underline{x}/\underline{y}, \underline{x}/\underline{y}, \overline{x}/\underline{y}, \overline{x}/\underline{y}\right)\right], \text{ if } 0 \notin Y$$

$$X/Y \subseteq \Re^*$$
, if $0 \in Y$

FIG. 5

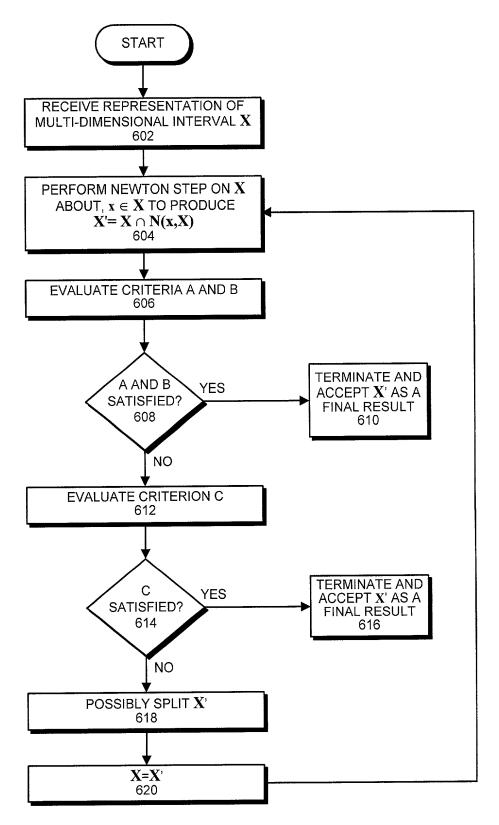


FIG. 6

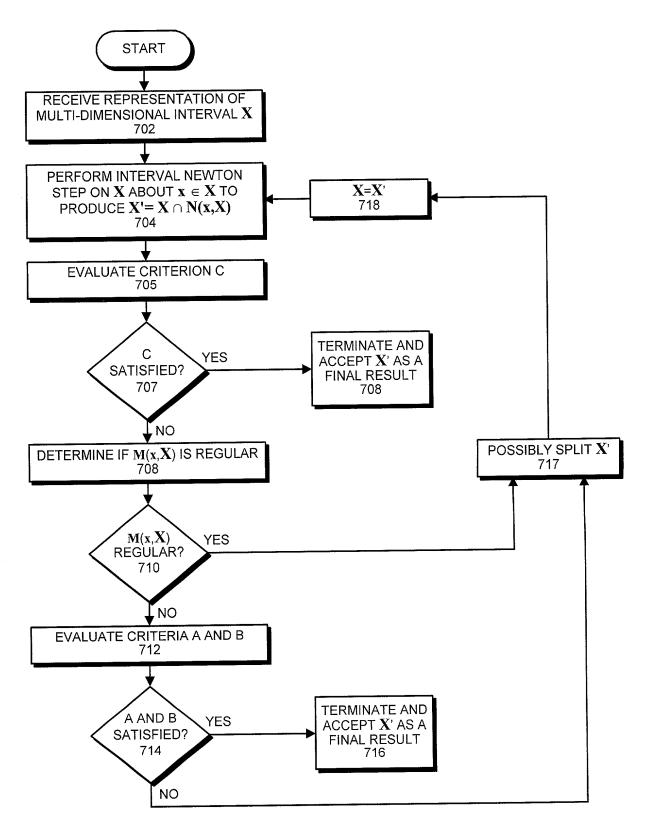
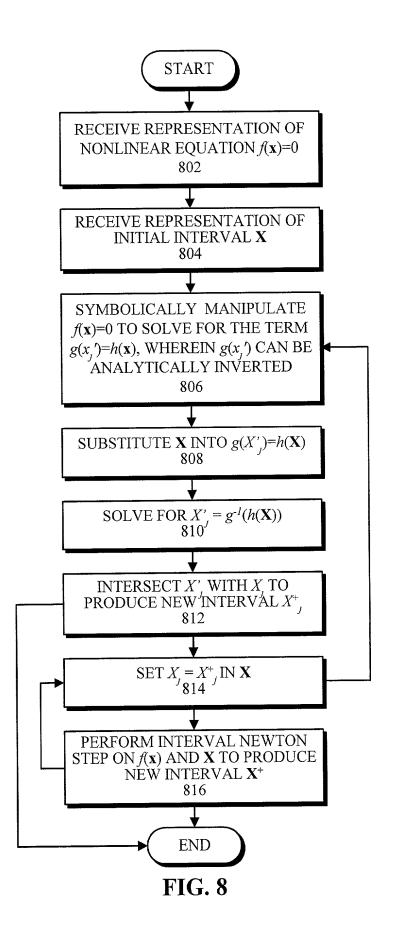


FIG. 7

* * 1



5 1 5 5 4

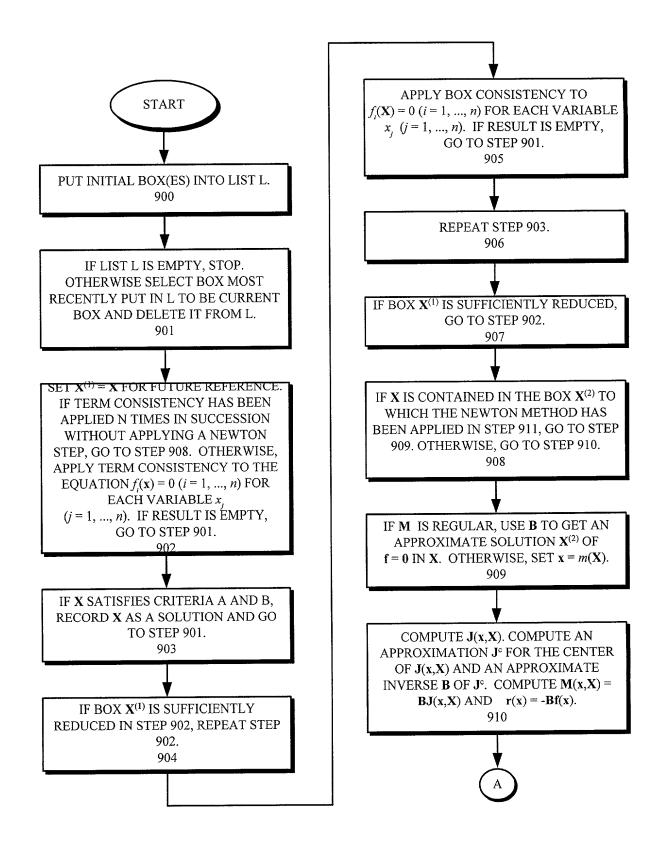


FIG. 9A

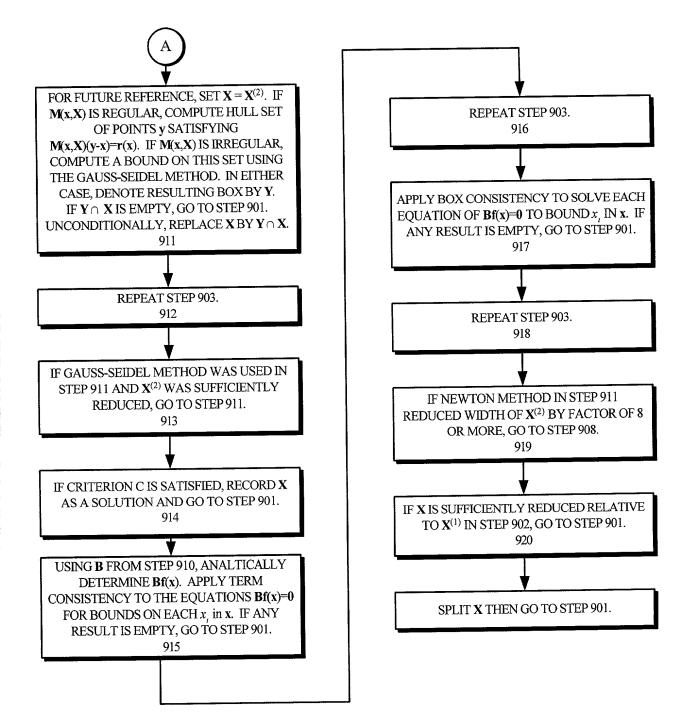


FIG. 9B